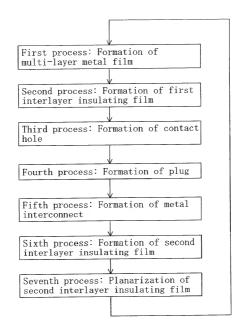
FIG. 1



First process: Formation of multi-layer metal film

- (1) Formation of first barrier metal layer
- (2) Formation of first metal film
- (3) Formation of second barrier metal layer
- (4) Formation of second metal film
- (5) Formation of diffusion preventing film

FIG. 3

Second process: Formation first interlayer insulating film

(1) Formation of first interlayer insulating film

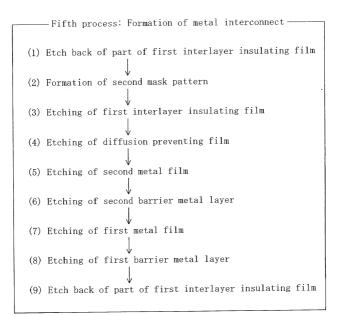
Third process: Formation of contact hole -

- (1) Formation of first mask pattern
- (2) Etching of first interlayer insulating film
- (3) Etching of diffusion preventing film

FIG. 5

- Fourth process: Formation of plug -

- (1) Formation of adhesive layer on wall of contact hole
 - (1-1) Formation of adhesive layer
 - (1-2) Dry etching
- (2) Selective growth of third metal film by plating in contact hole
- (3) Formation of plug through CMP of third metal film



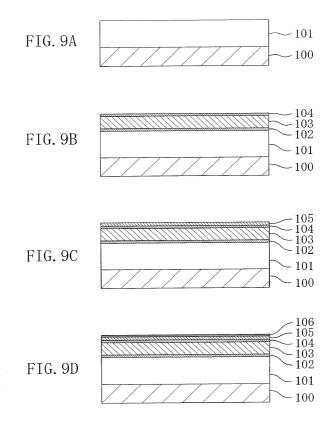
_Sixth process: Formation of second interlayer____insulating film

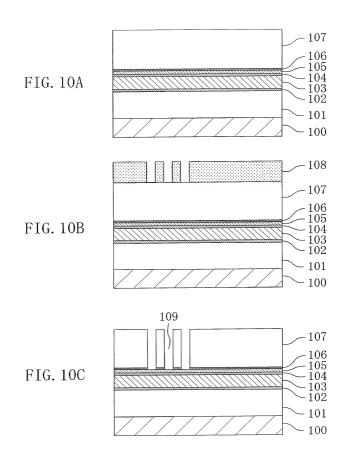
(1) Formation of second interlayer insulating film

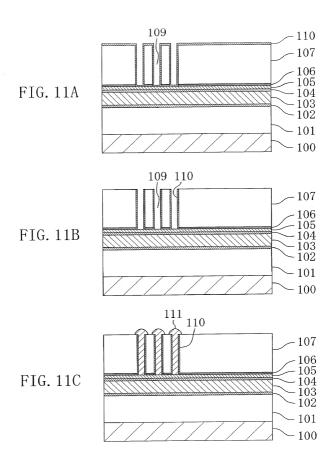
FIG. 8

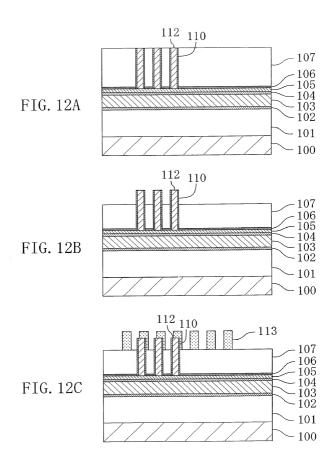
Seventh process: Planarization of second interlayer insulating film

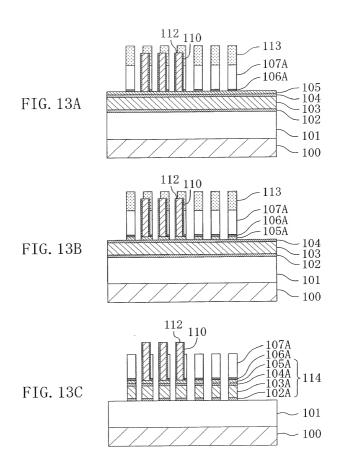
(1) Planarization by CMP











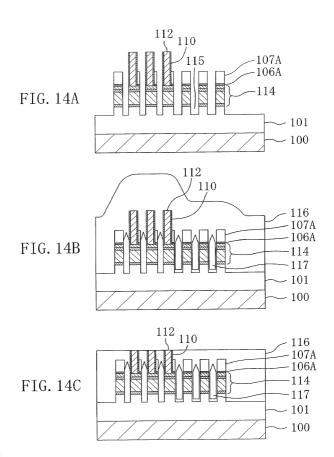


FIG. 15

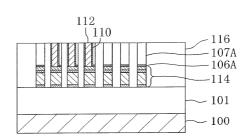


FIG. 16A

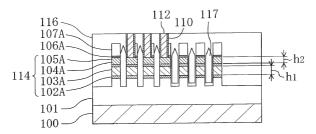


FIG. 16B

